

Remarks

Claims 1-2, 4-16, and 18-21 are pending in this application.

Reconsideration and allowance in view of the following remarks are respectfully requested.

Claims 1-22 are rejected under 35 U.S.C. 102(b) over Welches (U.S. Patent 6,404,655).

Applicants submit that the rejection under 35 U.S.C. §102(b) is defective because Welches fails to disclose each and every feature of the claimed invention. For example, independent claim 1 recites:

“An inverter system for delivering energy from a source of direct current (dc) to an alternating current (ac) utility, comprising:

a dc/dc converter coupled to the source of dc for synthesizing a time-varying current from the dc, the dc/dc converter comprising a phase-shifted input bridge coupled to the source of dc, the phase-shifted input bridge comprising a first phase leg and a second phase leg;

a controller for controlling a phase relationship between a first voltage waveform output by the first phase leg of the phase-shifted input bridge and a second voltage waveform output by the second phase leg of the phase-shifted input bridge to provide the time-varying current;

an output inductor coupled to the dc/dc converter; and

an inverter coupled to the output inductor for supplying the time-varying current to the ac utility in phase with a voltage of the ac utility.”

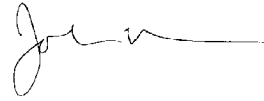
Welches fails to disclose, among other features, a “dc/dc converter coupled to the source of dc for synthesizing a time-varying current from the dc, the dc/dc converter comprising a **phase-shifted input bridge coupled to the source of dc, the phase-shifted input bridge comprising a first phase leg and a second phase leg,**” and a “**controller for controlling a phase relationship between a first voltage waveform output by the first phase leg of the phase-shifted input bridge and a second voltage waveform output by the second phase leg of the phase-shifted input bridge to provide the time-varying current.**” On the contrary, as can readily ascertained from FIGS. 4 or 5 of Welches, a constant voltage (ignoring switching frequency ripple) is provided across the capacitors C3 and C4 at the output of Welches’ DC/DC converter 30. In the present invention, however, a phase-shifted input bridge, comprising first and second phase legs, and a controller are used to create a **time varying current** (ignoring switching frequency ripple; see, e.g., FIG. 7) in the output inductor L4.

Accordingly, Applicants submit that independent claim 1 and its dependent claims are allowable. Further, Applicants submit that independent claims 15 and 20 and their dependent claims are allowable for reasons similar to those set forth above with regard to independent claim 1.

In light of the above, Applicants respectfully submit that all claims are in condition for allowance. Should the Examiner require anything further to place

the application in better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the number listed below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'John A. Merecki', with a long horizontal flourish extending to the right.

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